

Claim 4. (Twice Amended) A drive system for a locomotive or motor

coach, comprising a motor including a high voltage winding, wherein said winding includes insulation comprising at least two semiconducting layers, each layer providing a substantially equipotential surface, solid insulation between said semiconducting layers and a regulator device connected thereto.

Claim 6. (Twice Amended) A drive system for a locomotive or motor coach, comprising a transformer having a high voltage winding, a thyristor bridge supplied by a transformer, and a dc/ac converter supplied by a thyristor bridge and arranged to supply power to a traction motor, wherein said winding includes insulation including at least two semiconducting layers, each layer providing a substantially equipotential surface, and solid insulation between said semiconducting layers.

Claim 7. (Twice Amended) A drive system for a locomotive or motor coach, comprising a rotating converter having a high voltage winding and arranged to supply power to a traction motor, wherein said winding includes insulation consisting of at least two semiconducting layers, each layer providing a substantially equipotential surface, and solid insulation between said semiconducting layers.

Claim 14. (Twice Amended) A traction motor or drive system including at least one of a motor, transformer or rotating converter including high voltage winding, a core